ExCell

OptiVitro®

NK Cell Expansion Serum-free Kit Series

Proudct Overview

OptiVitro® NK Cell Expansion Serum-free Kit Series are designed for the *in vitro* expansion of human natural killer (NK) cells, it is serum-free, xeno-free, and support high yields of functional human NK cells from peripheral blood mononuclear cells (PBMCs) and cord blood mononuclear cells (CB-MNCs).

High viability **High expansion** **High purity** **High cytotoxicity**

NE000-N012

NK Cell Expansion Serum-free Medium P01

- Serum-free, xeno-free;
- Robust NK cell expansion;
- Work with feeder or feeder-free culture system;
- GMP grade, facilitate regulatory approval.

NE000-N022

NK Cell Expansion Serum-free Kit P01

- Serum-free, xeno-free;
- All-in-one, full-cytokines Kit;
- Robust NK cell expansion;
- GMP grade, facilitate regulatory approval.

NE000-N032

NK Cell Expansion Serum-free Basic Kit P01

- Serum-free, xeno-free;
- As a replenishment of a full-cytokines kit;
- Robust NK cell expansion;
- Work with feeder or feeder-free culture system;
- GMP grade, facilitate regulatory approval.

Proudct Data

1 Human NK cells from PBMCs cultured in NK Cell Expansion Serum-free Kit P01

Materials: T25 Flasks, T75 Flasks, 2L Bags

PBMCs: Seeding density at 1.3E6 cells/mL, equal to 6.5E6 cells in total.

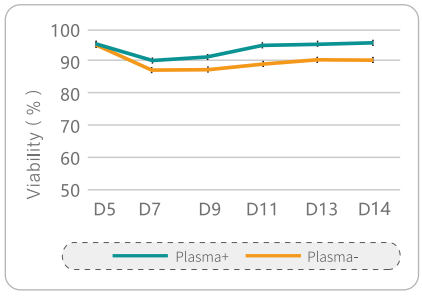

Figure 1. High viability of NK cells.

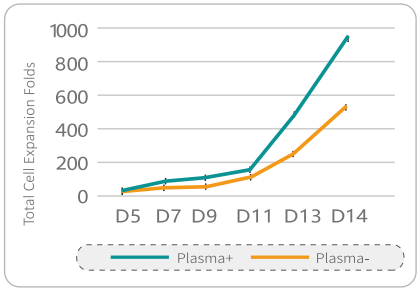

Figure 2. High yields of total cells.

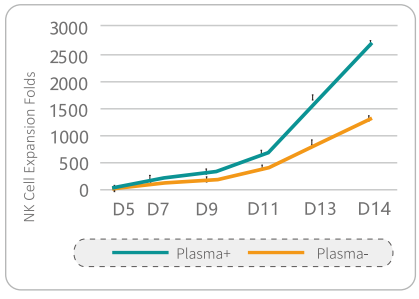

Figure 3. High yields of NK cells.

Plasma+ culture system, medium supplemented with heat-inactivated autologous plasma, obtain a density at 4.62E6 cells/mL, equal to 5.86E9 cells in total on Day 14, the culture volume is about 1.3L.

Plasma- culture system, obtain a density at 3.86E6 cells/mL, equal to 3.00E9 cells in total on Day 14, the culture volume is about 0.8L.

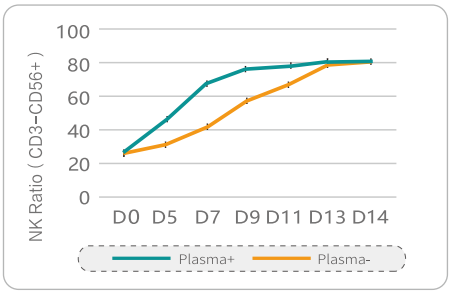

Figure 4. High purity of NK cells.

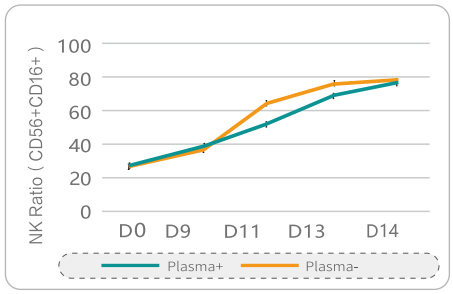

Figure 5. High purity of CD56+/CD16+ NK cells.

Work well without the plasma.

2 Human NK cells from CB-MNCs cultured in NK Cell Expansion Serum-free Kit P01

CB-MNCs: Seeding density at 2E6 cells/mL, equal to 2E6 cells in total.

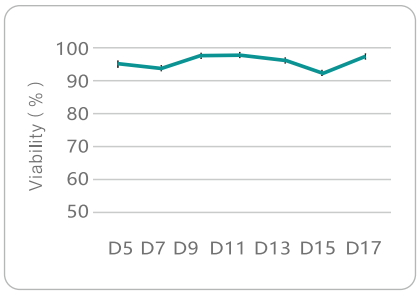

Figure 6. High viability of NK cells.

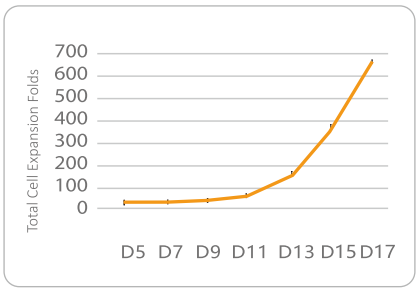

Figure 7. High yields of total cells.

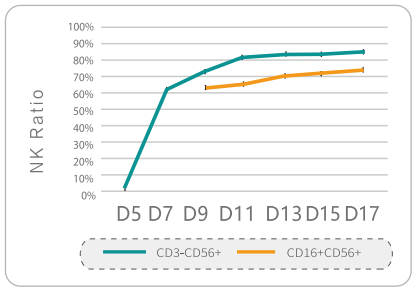

Figure 8. High purity of NK cells.

3 Human NK cells cultured demonstrate robust cytotoxicity.

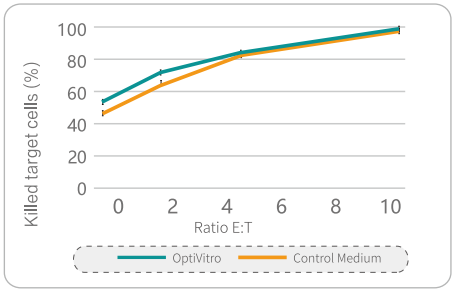

Figure 9. Cytolytic function test.
Human NK cells from PBMCs, can kill target K562 cells in a dose-dependent manner.

Product Information

Product Name	Catalog No.	Amount
OptiVitro® NK Cell Expansion Serum-free Medium P01	NE000-N012	1000 mL
	NE000-N011	500 mL
OptiVitro® NK Cell Expansion Serum-free Kit P01	NE000-N022	1 kit (1000 mL)
	NE000-N021	1 kit (500 mL)
OptiVitro® NK Cell Expansion Serum-free Basic Kit P01	NE000-N032	1 kit (1000 mL)
	NE000-N031	1 kit (500 mL)
OptiVitro® NK Cell Expansion Serum-free Medium NE01 (phenol red-free)	NE000-N042	1000 mL
	NE000-N041	500 mL

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